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GCCCCGGGCCCTGAGCTCCCGCCGACGCCGCTGGGGGGCCCGACAGGCCCCTCGGCGCTGATGCTGAGTGGGATCGAGG

GCCCGGGGCGGCGGCGGAGTACGGGCCTCTGGCGCCTTAGGCCAGCCGCAGGTGTCGGTTCTTAGGCTCTCCAGGCTCG

CTAGCTCCCGCCCCGGCTTGGATGGGTCTCCCTGCGCCATAAATGTGGCTGCTGAGGCGGCGGTGGCCGTGGCCCGTCG

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↑SEQ ID NO:3→

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<tr><td>TGG</td><td>CTA</td><td>GAC</td><td>GAG</td><td>GCG</td><td>CAG</td><td>TGC</td><td>GAG</td><td>GCC</td><td>ATG</td><td>TTT</td><td>GAC</td><td>CTG</td><td>ACG</td><td>ACC</td><td>CGG</td><td>CTC</td><td>ATC</td><td>CTG</td><td>GAG</td><td>153</td></tr>
<tr><td>G</td><td>Q</td><td>D</td><td>P</td><td>F</td><td>Q</td><td>R</td><td>Q</td><td>V</td><td>G</td><td>H</td><td>Q</td><td>V</td><td>L</td><td>E</td><td>A</td><td>Y</td><td>A</td><td>R</td><td>Y</td><td>71</td></tr>
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<tr><td>G</td><td>Y</td><td>H</td><td>S</td><td>L</td><td>D</td><td>R</td><td>K</td><td>D</td><td>V</td><td>A</td><td>I</td><td>L</td><td>D</td><td>Y</td><td>I</td><td>H</td><td>N</td><td>G</td><td>L</td><td>111</td></tr>
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<tr><td>GTC</td><td>TCC</td><td>CAG</td><td>GTG</td><td>ACA</td><td>AAA</td><td>GTG</td><td>AGT</td><td>AAC</td><td>TTG</td><td>CTG</td><td>CAG</td><td>AAC</td><td>ATC</td><td>TGG</td><td>AAG</td><td>GCC</td><td>GAG</td><td>CCT</td><td>GCC</td><td>633</td></tr>
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FIG 1A

```
         CTC ATC AGG AGC CTT ACT ACG GAT CCA AAT GTA AAA GAT GCA AGT ATG ACC CAA GCC CTT   813

           C   R   M   I   D   W   L   S   W   P   L   A   Q   H   V   D   T   W   V   I   291
         TGC AGA ATG ATT GAC TGG CTA TCC TGG CCA TTG GCT CAG CAT GTG GAT ACA TGG GTA ATT   873

           A   L   I   K   G   L   A   A   V   Q   K   F   T   I   L   I   D   V   T   L   311
         GCA CTC CTG AAA GGA CTG GCA GCT GTC CAG AAG TTT ACT ATT TTG ATA GAT GTT ACT TTG   933

           L   K   I   E   L   V   F   N   R   L   W   F   P   L   V   R   P   G   A   L   331
         CTG AAA ATA GAA CTG GTT TTT AAT CGA CTT TGG TTT CCT CTT GTG AGA CCT GGT GCT CTT   993

           A   V   L   S   H   M   L   L   S   F   Q   H   S   P   E   A   F   H   L   I   351
         GCA GTT CTT TCT CAC ATG CTG CTT AGC TTT CAG CAT TCT CCA GAG GCG TTC CAT TTG ATT   1053

           V   P   H   V   V   N   L   V   H   S   F   K   N   D   G   L   P   S   S   T   371
         GTT CCT CAT GTG GTT AAT TTG GTT CAT TCT TTC AAA AAT GAT GGT CTG CCT TCA AGT ACA   1113

           A   F   L   V   Q   L   T   E   L   I   H   C   M   M   Y   H   Y   S   G   F   391
         GCC TTC TTA GTA CAA TTA ACA GAA TTG ATA CAC TGT ATG ATG TAT CAT TAT TCT GGA TTT   1173

           P   D   L   Y   E   P   I   L   E   A   I   K   D   F   P   K   P   S   E   E   411
         CCA GAT CTC TAT GAA CCT ATT CTG GAG GCA ATA AAG GAT TTT CCT AAG CCC AGT GAA GAG   1233

           K   I   K   L   I   L   N   Q   S   A   W   T   S   Q   S   N   S   L   A   S   431
         AAG ATT AAG TTA ATT CTC AAT CAA AGT GCC TGG ACT TCT CAA TCC AAT TCT TTG GCG TCT   1293

           C   L   S   R   L   S   G   K   S   E   T   G   K   T   G   L   I   N   L   G   451
         TGC TTG TCT AGA CTT TCT GGA AAA TCT GAA ACT GGG AAA ACT GGT CTT ATT AAC CTA GGA   1353

           N   T   C   Y   M   N   S   V   I   Q   A   L   F   M   A   T   D   F   R   R   471
         AAT ACA TGT TAT ATG AAC AGT GTT ATA CAA GCC TTG TTT ATG GCC ACA GAT TTC AGG AGA   1413

           Q   V   L   S   L   N   L   N   G   C   N   S   L   M   K   K   L   Q   H   L   491
         CAA GTA TTA TCT TTA AAT CTA AAT GGG TGC AAT TCA TTA ATG AAA AAA TTA CAG CAT CTT   1473

           F   A   F   L   A   H   T   Q   R   E   A   Y   A   P   R   I   F   F   E   A   511
         TTT GCC TTT CTG GCC CAT ACA CAG AGG GAA GCA TAC GCA CCT CGG ATA TTC TTT GAG GCT   1533

           S   R   P   P   W   F   T   P   R   S   Q   Q   D   C   S   E   Y   L   R   F   531
         TCC AGA CCT CCA TGG TTT ACT CCC AGA TCA CAG CAA GAC TGT TCT GAA TAC CTC AGA TTT   1593

           L   L   D   R   L   H   E   E   E   K   I   L   K   V   Q   A   S   H   K   P   551
         CTC CTT GAC AGG CTC CAT GAA GAA GAA AAG ATC TTG AAA GTT CAG GCC TCA CAC AAG CCT   1653

           S   E   I   L   E   C   S   E   T   S   L   Q   E   V   A   S   K   A   A   V   571
         TCT GAA ATT CTG CAA TGC AGT GAA ACT TCT TTA CAG GAA GTA GCT AGT AAA GCA GCA GTA   1713

           L   T   E   T   P   R   T   S   D   G   E   K   T   L   I   E   K   M   F   G   591
         CTA ACA GAG ACC CCT CGT ACA AGT GAC GGT GAG AAG ACT TTA ATA GAA AAA ATG TTT GGA   1773

           G   K   L   R   T   H   I   R   C   L   N   C   R   S   T   S   Q   K   V   E   611
         GGA AAA CTA CGA ACT CAC ATA CGT TGT TTG AAC TGC AGG AGT ACC TCA CAA AAA GTG GAA   1833

           A   F   T   D   L   S   L   A   F   C   P   S   S   S   L   E   N   M   S   V   631
         GCC TTT ACA GAT CTT TCG CTT GCC TTT TGT CCT TCC TCT TCT TTG GAA AAC ATG TCT GTC   1893

           Q   D   P   A   S   S   P   S   I   Q   D   G   G   L   M   Q   A   S   V   P   651
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FIG 1B

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CAA GAT CCA GCA TCA TCA CCC AGT ATA CAA GAT GGT GGT CTA ATG CAA GCC TCT GTA CCC   1953

  G   P   S   E   E   P   V   V   Y   N   P   T   T   A   A   F   I   C   D   S    671
GGT CCT TCA GAA GAA CCA GTA GTT TAT AAT CCA ACA ACA GCT GCC TTC ATC TGT GAC TCA   2013

  L   V   N   E   K   T   I   G   S   P   P   N   E   F   Y   C   S   E   N   T    691
CTT GTG AAT GAA AAA ACC ATA GGC AGT CCT CCT AAT GAG TTT TAC TGT TCT GAA AAC ACT   2073

  S   V   P   N   E   S   N   K   I   L   V   N   K   D   V   P   Q   K   P   G    711
TCT GTC CCT AAC GAA TCT AAC AAG ATT CTT GTT AAT AAA GAT GTA CCT CAG AAA CCA GGA   2133

  G   E   T   T   P   S   V   T   D   L   L   N   Y   F   L   A   P   E   I   L    731
GGT GAA ACC ACA CCT TCA GTA ACT GAC TTA CTA AAT TAT TTT TTG GCT CCA GAG ATT CTT   2193

  T   G   D   N   Q   Y   Y   C   E   N   C   A   S   L   Q   N   A   E   K   T    751
ACT GGT GAT AAC CAA TAT TAT TGT GAA AAC TGT GCC TCT CTG CAA AAT GCT GAG AAA ACT   2253

  M   Q   I   T   E   E   P   E   Y   L   I   L   T   L   L   R   F   S   Y   D    771
ATG CAA ATC ACG GAG GAA CCT GAA TAC CTT ATT CTT ACT CTC CTG AGA TTT TCA TAT GAT   2313

  Q   K   Y   H   V   R   R   K   I   L   D   N   V   S   L   P   L   V   L   E    791
CAG AAG TAT CAT GTG AGA AGG AAA ATT TTA GAC AAT GTA TCA CTG CCA CTG GTT TTG GAG   2373

  L   P   V   K   R   I   T   S   F   S   S   L   S   E   S   W   S   V   D   V    811
TTG CCA GTT AAA AGA ATT ACT TCT TTC TCT TCA TTG TCA GAA AGT TGG TCT GTA GAT GTT   2433

  D   F   T   D   L   S   E   N   L   A   K   K   L   K   P   S   G   T   D   E    831
GAC TTC ACT GAT CTT AGT GAG AAC CTT GCT AAA AAA TTA AAG CCT TCA GGG ACT GAT GAA   2493

  A   S   C   T   K   L   V   P   Y   L   L   S   S   V   V   V   H   S   G   I    851
GCT TCC TGC ACA AAA TTG GTG CCC TAT CTA TTA AGT TCC GTT GTG GTT CAC TCT GGT ATA   2553

  S   S   E   S   G   H   Y   Y   S   Y   A   R   N   I   T   S   T   D   S   S    871
TCC TCT GAA AGT GGG CAT TAC TAT TCT TAT GCC AGA AAT ATC ACA AGT ACA GAC TCT TCA   2613

  Y   Q   M   Y   H   Q   S   E   A   L   A   L   A   S   S   Q   S   H   L   L    891
TAT CAG ATG TAC CAC CAG TCT GAG GCT CTG GCA TTA GCA TCC TCC CAG AGT CAT TTA CTA   2673

  G   R   D   S   P   S   A   V   F   E   Q   D   L   E   N   K   E   M   S   K    911
GGG AGA GAT AGT CCC AGT GCA GTT TTT GAA CAG GAT TTG GAA AAT AAG GAA ATG TCA AAA   2733

  E   W   F   L   F   N   D   S   R   V   T   F   T   S   F   Q   S   V   Q   K    931
GAA TGG TTT TTA TTT AAT GAC AGT AGA GTG ACA TTT ACT TCA TTT CAG TCA GTC CAG AAA   2793

  I   T   S   R   F   P   K   D   T   A   Y   V   L   L   Y   K   K   Q   H   S    951
ATT ACG AGC AGG TTT CCT AAG GAC ACA GCT TAT GTG CTT TTG TAT AAA AAA CAG CAT AGT   2853

  T   N   G   L   S   G   N   N   P   T   S   G   L   W   I   N   G   D   P   P    971
ACT AAT GGT TTA AGT GGT AAT AAC CCA ACC AGT GGA CTC TGG ATA AAT GGA GAC CCA CCT   2913

  L   Q   K   E   L   M   D   A   I   T   K   D   N   K   L   Y   L   Q   E   Q    991
CTA CAG AAA GAA CTT ATG GAT GCT ATA ACA AAA GAC AAT AAA CTA TAT TTA CAT GAA CAA   2973

  E   L   N   A   R   A   R   A   L   Q   A   A   S   A   S   C   S   F   R   P   1011
GAG TTG AAT GCT CGA GCC CGG GCC CTC CAA GCT GCA TCT GCT TCA TGT TCA TTT CGG CCC   3033

  N   G   F   D   D   N   D   P   P   G   S   C   G   P   T   G   G   G   G   G   1031
```

FIG 1C

```
AAT GGA TTT GAT GAC AAC GAC CCA CCA GGA AGC TGT GGA CCA ACT GGT GGA GGG GGT GGA    3093

 G   G   F   N   T   V   G   R   L   V   F   *                                     1043
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TGTTCAGAAGAAAATATGTACCTGGTCCCTAATTAAGCTGCGTTAAATTTGGTAGAAGCATTTAAATGGTCTATCTTCA

GTTTTACTGAACAAAAAATGTAATTTATTTAGCATTCTTTATAAAAGAATTGATGCTAGAGGTAAAAAAAAATACTTGT

TTTTAAAAAATCCTTTACGTCTTGTGTAATTACCCCATTATTAAATTCAAGTCCTTGAAAATCAACTAGAGATTATAAA

GTCTCTAAAGAAGGCAATAACAAAATTTATCAAGATATAGTACTTTTCAGTTTTTGTTTAGTGTCTTCAGCATCACTGT

GTCTGTATTTCAAGTACAAATGTTTTTAAAAAGGATTCTTTATACATATGTGCTGAATTGATTTTAAGGAAAGTTGCAT

GATCCTGTAGGAGCAACATTTTTACCTAAAAAATGCTAACTTTATAGTATTTCTAATTGTTCAAGGATTTTAAAATTCT

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FIG 1D

PFAM

no HMM hits

UCH-1

UCH 2

Con
Nolu
ght
TM
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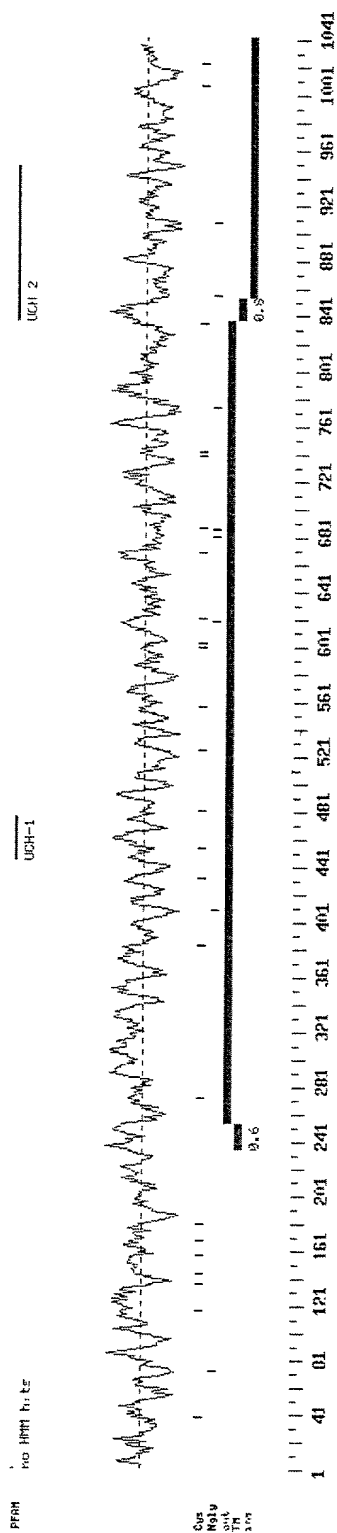
Fig. 2

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Fig. 3

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                ............................WykFDDdkVsrvteeevlke
                +++++  ++++++   +++ ++++ +++W++F+D++V+  +    v+k
      23430   883 lassqshllgrdspsavfeqdlenkemskeWFLFNDSRVTFTSFQSVQKI 932

             sggesgdtssAYiLfYer<-*
                +        ++AY+L+Y++
      23430   933 TSR--FPKDTAYVLLYKK      948
```

Fig. 4

```
Query:   710 PGGETTPSVTDLLNYFLAPEILTGDNQYYCENCASLQNAEKTMQITEEPEYLILTLLRFS 769 SEQ ID
NO:6
             P G+ + S+ D L  F  PE L GDN+Y+CE C   Q+A K + I + P+ L + L RF
Sbjct:    12 PEGDHS-SLEDCLEQFFKPEELEGDNKYHCEKCKKKQDATKQLTIKKLPQVLTIHLKRFE 70
```

Fig. 5